

# Notice of Allowability

Application No.

09/350,492

Examiner

Kenneth Tang

Applicant(s)

KRISHNAN ET AL.

Art Unit

2195

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9/26/05.
2. ☒ The allowed claim(s) is/are 30, 32, 34-35, 38-47, and 50-52; now renumbered as 1-17.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 12/7/05.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
MENG-ATAN  
SUPERVISORY PATENT EXAMINER  
BIOLOGY CENTER 2100

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Paul Horstmann (Reg. No. 36,167) on 12/7/05.

3. The application has been amended as follows:

In the claims:

**Replace claim 30 with the following:**

30. A system for adapting threads support in a virtual machine to an underlying platform of the virtual machine, comprising:

threads interface layer (TIL) that provides a standard threads interface for a set of threads associated with an application program of the virtual machine such that the standard threads interface does not depend on the underlying platform;

native threads interface layer (NTIL) for adapting the TIL to the underlying platform such that a set of routines in the TIL use a set of routines in the NTIL to support the threads;

wherein the NTIL is adapted to an operating system of the underlying platform;

Art Unit: 2195

wherein the NTIL is adapted to use a set of routines provided by the operating system that perform equivalent functions of functions in the native threads interface layer (NTIL);

wherein the routines in the TIL maintain a set of context information for each thread in terms of the virtual machine; and

wherein the routines in the NTIL maintain a set of context information for each thread in terms of the underlying platform.

**Cancel claims 31, 33, 36, and 37.**

**Claim 32**

- line 1, replace "31" with "30";

**Replace claim 47 with the following:**

47. A method for adapting threads support in a virtual machine to an underlying platform, comprising:

providing a threads interface layer (TIL) having a standard threads interface in the virtual machine for a set of threads associated with an application program that executes under the virtual machine such that the standard threads interface does not depend on the underlying platform;

providing a native threads interface layer (NTIL) for adapting the TIL to the underlying platform such that a set of routines in the TIL use a set of routines in the NTIL to support the threads, wherein the routines in the TIL maintain a set of context information for each thread in

Art Unit: 2195

terms of the virtual machine, and the routines in the NTIL maintain a set of context information for each thread in terms of the underlying platform;

wherein providing an NTIL includes adapting the NTIL to an operating system of the underlying platform; and

wherein adapting the NTIL to an operating system includes adapting the NTIL to use a set of thread support routines provided by the operating system;

**Cancel claims 48 and 49.**

**Claim 50**

- line 1, replace "48" with "47".

***Conclusion***


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth Tang whose telephone number is (571) 272-3772. The examiner can normally be reached on 8:30AM - 6:00PM, Every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2195

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kt  
12/7/05



MENG-AL T. AN  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100